

DEMOGRAPHIC AND HEALTH SURVEYS  
 ADULT AND MATERNAL MORTALITY MODULE  
 MODEL WOMAN'S QUESTIONNAIRE

[NAME OF COUNTRY]  
 [NAME OF ORGANIZATION]

IDENTIFICATION (1)												
PLACE NAME	<hr/>											
NAME OF HOUSEHOLD HEAD	<hr/>											
CLUSTER NUMBER	<hr/>											
HOUSEHOLD NUMBER	<hr/>											
NAME AND LINE NUMBER OF WOMAN	<hr/>											
INTERVIEWER VISITS												
	1	2	3	FINAL VISIT								
DATE	<hr/>	<hr/>	<hr/>	DAY <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>								
INTERVIEWER'S NAME	<hr/>	<hr/>	<hr/>	MONTH <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>								
RESULT*	<hr/>	<hr/>	<hr/>	YEAR <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>								
NEXT VISIT: DATE	<hr/>	<hr/>	<hr/>	INT. NO. <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>								
TIME	<hr/>	<hr/>	<hr/>	RESULT* <table border="1" style="display: inline-table;"><tr><td></td></tr></table>								
				TOTAL NUMBER OF VISITS <table border="1" style="display: inline-table;"><tr><td></td></tr></table>								
*RESULT CODES: 1 COMPLETED      4 REFUSED 2 NOT AT HOME      5 PARTLY COMPLETED      7 OTHER _____ 3 POSTPONED      6 INCAPACITATED      SPECIFY												
LANGUAGE OF QUESTIONNAIRE**	0 <table border="1" style="display: inline-table;"><tr><td>1</td></tr></table>	1	LANGUAGE OF INTERVIEW** <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table>			NATIVE LANGUAGE OF RESPONDENT** <table border="1" style="display: inline-table;"><tr><td></td><td></td></tr></table>			TRANSLATOR USED (YES = 1, NO = 2) <table border="1" style="display: inline-table;"><tr><td></td></tr></table>			
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LANGUAGE OF QUESTIONNAIRE**	<b>ENGLISH</b>		<b>**LANGUAGE CODES:</b> 01 ENGLISH      03 LANGUAGE 3      05 LANGUAGE 5 02 LANGUAGE 2      04 LANGUAGE 4      06 LANGUAGE 6									
SUPERVISOR			FIELD EDITOR	OFFICE EDITOR								
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				NUMBER								

(1) This section should be adapted for country-specific survey design.

SECTION MM. ADULT AND MATERNAL MORTALITY MODULE

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP																																																																																				
MM01	<p>Now I would like to ask you some questions about your brothers and sisters born to your natural mother, including those who are living with you, those living elsewhere and those who have died. From our experience in prior surveys, we know it may sometimes be difficult to establish a complete list of all the children born to your natural mother. We will work together to draw the most complete list and work to recall all your siblings. Could you please now give me the names of all of your brothers and sisters born to your natural mother.</p> <p>DO NOT FILL IN THE ORDER NUMBER YET.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">NAME</td> <td style="width: 15%;">ORDER NUMBER</td> <td style="width: 25%;">NAME</td> <td style="width: 15%;">ORDER NUMBER</td> </tr> <tr> <td>a _____</td> <td><table style="border: none;"><tr><td style="border: 1px solid black; width: 15px; height: 15px;"></td><td style="border: 1px solid black; width: 15px; height: 15px;"></td></tr></table></td> <td>k _____</td> <td><table style="border: none;"><tr><td style="border: 1px solid black; width: 15px; height: 15px;"></td><td style="border: 1px solid black; width: 15px; height: 15px;"></td></tr></table></td> </tr> <tr> <td>b _____</td> <td><table style="border: none;"><tr><td style="border: 1px solid black; width: 15px; height: 15px;"></td><td style="border: 1px solid black; width: 15px; height: 15px;"></td></tr></table></td> <td>l _____</td> <td><table style="border: none;"><tr><td style="border: 1px solid black; 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MM02	<p>CHECK MM01:</p> <p>ONE OR MORE BROTHERS <input type="checkbox"/> OR SISTERS LISTED </p> <p>NO BROTHERS <input type="checkbox"/> OR SISTERS LISTED </p>		→ MM04																																																																																				
MM03	<p>READ THE NAMES OF THE BROTHERS AND SISTERS TO THE RESPONDENT AND AFTER THE LAST ONE ASK: Are there any other brothers and sisters from the same mother that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/> </p>		→ LIST ADDITIONAL BROTHERS AND SISTERS IN MM01.																																																																																				
MM04	<p>Sometimes people forget to mention children born to their natural mother because they do not live with them or they do not see them very often. Are there any brothers or sisters who do not live with you that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/> </p>		→ LIST ADDITIONAL BROTHERS AND SISTERS IN MM01.																																																																																				
MM05	<p>Sometimes people forget to mention children born to their natural mother because they have died. Are there any brothers or sisters who died that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/> </p>		→ LIST ADDITIONAL BROTHERS AND SISTERS IN MM01.																																																																																				
MM06	<p>Some people have brothers or sisters from the same mother but a different father. Are there any brothers or sisters born to your natural mother, but who have a different natural father, that you have not mentioned?</p> <p>NO <input type="checkbox"/> YES <input type="checkbox"/> </p>		→ LIST ADDITIONAL BROTHERS AND SISTERS IN MM01.																																																																																				
MM07	<p>COUNT THE NUMBER OF BROTHERS AND SISTERS RECORDED IN MM01.</p>	<p>TOTAL BROTHERS AND SISTERS ...</p> <table style="border: 1px solid black; width: 20px; height: 15px; margin-left: 10px;"></table>																																																																																					

SECTION MM. ADULT AND MATERNAL MORTALITY MODULE

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP		
MM08	<p>CHECK MM07:</p> <p>Just to make sure that I have this right: Your mother had in TOTAL _____ births, excluding you, during her lifetime. Is that correct?</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/></p> <p style="text-align: center;">↓</p>	<p>PROBE AND CORRECT MM01 AND/OR MM07.</p>			
MM09	<p>CHECK MM07:</p> <p>ONE OR MORE <input type="checkbox"/> BROTHERS/SISTERS</p> <p style="text-align: center;">↓</p> <p>BROTHER OR SISTER <input type="checkbox"/> NO</p>		NEXT SECT.		
MM10	<p>Please tell me, which brother or sister was born first? And which was born next?          RECORD '01' FOR THE ORDER NUMBER IN MM01 FOR THE FIRST BROTHER OR SISTER, '02' FOR THE SECOND, AND SO ON UNTIL YOU HAVE RECORDED THE ORDER NUMBER FOR ALL BROTHERS AND SISTERS.</p>				
MM11	<p>How many births did your mother have before you were born?</p>	<p>NUMBER OF PRECEDING BIRTHS ..</p> <table border="1" style="display: inline-table;"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>				

SECTION MM. ADULT AND MATERNAL MORTALITY MODULE

MM12	LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN MM01. ASK MM13 TO MM24 FOR ONE BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE.						
MM13	NAME OF BROTHER OR SISTER.	(01)	(02)	(03)	(04)	(05)	(06)
MM14	Is (NAME) male or female?	MALE .... 1 FEMALE .. 2					
MM15	Is (NAME) still alive?	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (02)	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (03)	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (04)	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (05)	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (06)	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (07)
MM16	How old is (NAME)?	<input type="text"/> <input type="text"/> GO TO (02)	<input type="text"/> <input type="text"/> GO TO (03)	<input type="text"/> <input type="text"/> GO TO (04)	<input type="text"/> <input type="text"/> GO TO (05)	<input type="text"/> <input type="text"/> GO TO (06)	<input type="text"/> <input type="text"/> GO TO (07)
MM17	How many years ago did (NAME) die?	<input type="text"/> <input type="text"/>					
MM18	How old was (NAME) when (he/she) died?  IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE.	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23	<input type="text"/> <input type="text"/> IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO MM23
MM19	Was (NAME) pregnant when she died?	YES ..... 1 GO TO MM23 NO ..... 2					
MM20	Did (NAME) die during childbirth?	YES ..... 1 GO TO (02) NO ..... 2	YES ..... 1 GO TO (03) NO ..... 2	YES ..... 1 GO TO (04) NO ..... 2	YES ..... 1 GO TO (05) NO ..... 2	YES ..... 1 GO TO (06) NO ..... 2	YES ..... 1 GO TO (07) NO ..... 2
MM21	Did (NAME) die within two months after the end of a pregnancy or childbirth?	YES ..... 1 NO ..... 2 GO TO MM23					
MM22	How many days after the end of the pregnancy or childbirth did (NAME) die?	<input type="text"/> <input type="text"/>					
MM23	Was (NAME)'s death due to an act of violence?	YES ..... 1 GO TO (02) NO ..... 2	YES ..... 1 GO TO (03) NO ..... 2	YES ..... 1 GO TO (04) NO ..... 2	YES ..... 1 GO TO (05) NO ..... 2	YES ..... 1 GO TO (06) NO ..... 2	YES ..... 1 GO TO (07) NO ..... 2
MM24	Was (NAME)'s death due to an accident?	YES ..... 1 NO ..... 2 GO TO (02)	YES ..... 1 NO ..... 2 GO TO (03)	YES ..... 1 NO ..... 2 GO TO (04)	YES ..... 1 NO ..... 2 GO TO (05)	YES ..... 1 NO ..... 2 GO TO (06)	YES ..... 1 NO ..... 2 GO TO (07)

IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION.

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MM13	NAME OF BROTHER OR SISTER.	(07)	(08)	(09)	(10)	(11)	(12)												
MM14	Is (NAME) male or female?	MALE .... 1 FEMALE .. 2	MALE .... 1 FEMALE .. 2	MALE .... 1 FEMALE .. 2	MALE .... 1 FEMALE .. 2	MALE .... 1 FEMALE .. 2	MALE .... 1 FEMALE .. 2												
MM15	Is (NAME) still alive?	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (08) ↗	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (09) ↗	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (10) ↗	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (11) ↗	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (12) ↗	YES ..... 1 NO ..... 2 GO TO MM17 DK ..... 8 GO TO (13) ↗												
MM16	How old is (NAME)?	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (08)			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (09)			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (10)			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (11)			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (12)			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> GO TO (13)		
MM17	How many years ago did (NAME) die?	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>		
MM18	How old was (NAME) when (he/she) died?  IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE.	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>		
MM19	Was (NAME) pregnant when she died?	YES ..... 1 GO TO MM23 ↗ NO ..... 2	YES ..... 1 GO TO MM23 ↗ NO ..... 2	YES ..... 1 GO TO MM23 ↗ NO ..... 2	YES ..... 1 GO TO MM23 ↗ NO ..... 2	YES ..... 1 GO TO MM23 ↗ NO ..... 2	YES ..... 1 GO TO MM23 ↗ NO ..... 2												
MM20	Did (NAME) die during childbirth?	YES ..... 1 GO TO (08) ↗ NO ..... 2	YES ..... 1 GO TO (09) ↗ NO ..... 2	YES ..... 1 GO TO (10) ↗ NO ..... 2	YES ..... 1 GO TO (11) ↗ NO ..... 2	YES ..... 1 GO TO (12) ↗ NO ..... 2	YES ..... 1 GO TO (13) ↗ NO ..... 2												
MM21	Did (NAME) die within two months after the end of a pregnancy or childbirth?	YES ..... 1 NO ..... 2 GO TO MM23 ↗	YES ..... 1 NO ..... 2 GO TO MM23 ↗	YES ..... 1 NO ..... 2 GO TO MM23 ↗	YES ..... 1 NO ..... 2 GO TO MM23 ↗	YES ..... 1 NO ..... 2 GO TO MM23 ↗	YES ..... 1 NO ..... 2 GO TO MM23 ↗												
MM22	How many days after the end of the pregnancy or childbirth did (NAME) die?	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>			<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table>		
MM23	Was (NAME)'s death due to an act of violence?	YES ..... 1 GO TO (08) ↗ NO ..... 2	YES ..... 1 GO TO (09) ↗ NO ..... 2	YES ..... 1 GO TO (10) ↗ NO ..... 2	YES ..... 1 GO TO (11) ↗ NO ..... 2	YES ..... 1 GO TO (12) ↗ NO ..... 2	YES ..... 1 GO TO (13) ↗ NO ..... 2												
MM24	Was (NAME)'s death due to an accident?	YES ..... 1 NO ..... 2 GO TO (08)	YES ..... 1 NO ..... 2 GO TO (09)	YES ..... 1 GO TO (10)	YES ..... 1 GO TO (11)	YES ..... 1 GO TO (12)	YES ..... 1 GO TO (13)												

IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION.

## **DHS-8 Adult and Maternal Mortality Module**

### **Instructions for Interviewer's Manual**

#### Section MM: Adult and Maternal Mortality

##### Q. MM01: INTRODUCTORY QUESTION

Begin the section by informing the respondent that we would like to record the names of all of her brothers and sisters. Read the question slowly so the respondent will understand that you are asking her to list **ALL** children born to her natural mother. This includes brothers and sisters of the respondent who may live elsewhere and those who have died. Also included are brothers and sisters who were born to her mother, but are not the natural children of her father (they have same mother, different father).

As your respondent lists the names, write them down as reported by her. She can give the names in any order. Do not include the respondent in the list.

Do not fill in the order number yet, more detailed instructions on how to complete the order number are provided in Q. MM10.

##### Q. MM02: FILTER FOR NO BROTHERS AND SISTERS

Check the answers in Q. MM01. If the respondent had one or more brothers or sisters listed, continue with Q. MM03. If the respondent had no brothers or sisters listed, go to Q. MM04.

##### Q. MM03: CHECKING NAMES OF BROTHERS AND SISTERS

When you have listed all the names, you want to be certain you have included all the brothers and sisters of the respondent who were also born to her natural mother before continuing with the rest of the module. **To do this, read the names of all the brothers and sisters aloud and after the last one ask question Q. MM03.**

If the answer is YES, go back to Q. MM01 and add names to the list before continuing to Q. MM04. If the answer is NO, go to Q. MM04.

##### Q. MM04: ANY BROTHERS AND SISTERS LIVING ELSEWHERE

This question refers to the respondent's brothers and sisters who are alive but do not live with her or she does not see very often. For example, the brothers or sisters may have been raised separately, or are living in another town or country.

If the answer is YES, go back to Q. MM01 and add names to the list before continuing to Q. MM05. If the answer is NO, go to Q. MM05.

##### Q. MM05: ANY BROTHERS AND SISTERS WHO DIED

This question refers to the respondent's brothers and sisters who have died. Some respondents may fail to mention a brother or sister who died at a very young age, so if a respondent answers NO, it is important to probe by asking, "Any brother or sister who died at a very young age?"

If the answer is YES, go back to Q. MM01 and add names to the list before continuing to Q. MM06. If the answer is NO, go to Q. MM06.

#### Q. MM06: ANY HALF BROTHERS AND SISTERS

This question refers to the respondent's half-brothers/sisters who have the same mother as the respondent, but a different father.

If the answer is YES, go back to Q. MM01 and add names to the list before continuing to Q. MM07. If the answer is NO, go to Q. MM07.

#### Q. MM07: TOTAL BROTHERS AND SISTERS

Add up the number of brothers and sisters in Q. MM01 and enter the total in Q. MM07.

#### Q. MM08: CHECKING TOTAL WITH RESPONDENT

Place the answer to Q. MM07 in the blank space in Q. MM08 and then ask the respondent whether the total is correct. When asking the question, emphasize the words "excluding you."

If she says NO, check the box NO and then return to Q. MM01 to check with the respondent whether you have obtained the information correctly. Once you have made sure the total number of brothers and sisters is correct, draw two lines through the "NO" box in Q. MM08 (because it's no longer true), and then mark the "YES" box and proceed with Q. MM09.

#### Q. MM09: FILTER FOR BROTHERS AND SISTERS

Check the answer in Q. MM07. If the respondent had one or more brothers or sisters, continue with Q. MM10. If the respondent had no brothers or sisters, go to the Next Section.

#### Q. MM10: ORDER NUMBER

At this point, go back to Q. MM01 to ask the order number for all brothers and sisters. Record 01 as the order number for the brother/sister born first, 02 for the brother/sister born second, and so on until you have recorded the order number of all the brothers and sisters.

You will not include the respondent in the birth order.

Once you have established the order number of all brothers and sisters, go to Q. MM11.

#### Q. MM11: NUMBER OF PREVIOUS BIRTHS

Record how many brothers and sisters from the same mother are older than the respondent herself, that is, those born before the respondent. By comparing the age of the respondent with that of her brothers and sisters we can verify that the order of the brothers and sisters is correct.

#### Q. MM13: NAME OF BROTHERS AND SISTERS

Record at the top of the columns the name of each brother/sister of the respondent according to the order number in Q. MM01. Do not include the respondent in a column. Indicate the respondent's place among the siblings by drawing an 'X' in Q. MM13 on the vertical line that separates the two columns between two siblings.

When the list is complete, you will ask the questions in this section for one sibling before asking about the brother or sister in the next column. Reference the brother or sister by mentioning his/her name.

If the respondent has more than 12 brothers or sisters born to the same mother, take a second Woman's Questionnaire, fill in the information on the cover page, and write CONTINUATION on the top. In this second questionnaire, re-number the column numbers in Q. MM13 to (13), (14), etc. and record the additional information about the other siblings.

**Q. MM14: SEX OF BROTHER OR SISTER**

Always confirm the sex of a person before recording it in Q. MM14 since there are many names that may be given to either a male or female.

**Q. MM15: SURVIVAL STATUS OF BROTHER OR SISTER**

If a brother or sister died (Q. MM15 is NO) go to Q. MM17. If the respondent does not know if the brother or sister is still alive, circle '8' and go to the next column (if there are other brothers and sisters).

**Q. MM16: AGE OF BROTHER OR SISTER**

If the brother or sister is alive, you must record his/her age at the last birthday. If the respondent doesn't know, probe until you get an estimate. A good probe is to ask how many years the brother or sister is younger or older than the respondent.

The ages of sisters who are still alive are used for calculating the years of exposure for estimating maternal mortality rates. After recording the response, go to the next column (if there are other brothers or sisters).

**Q. MM17: NUMBER OF YEARS THAT HAVE PASSED SINCE THE DEATH**

This question and others that follow refer only to brothers and sisters who have died. Ask how many years ago the brother or sister died. If the respondent does not know, ask her the year of death and calculate to determine the number of years since the death of the brother or sister. You must at least get an estimate.

**Q. MM18: AGE AT DEATH**

Age at the time of death is very important information. Make a maximum effort to obtain the response. This information is more important for sisters than for brothers because the age will determine which skip instruction you follow; whether to ask questions Q. MM19-MM22 or whether to skip to Q. MM23.

If a brother of any age or a sister younger than 12 years of age died, then go to Q. MM23. If a sister older than 12 years of age died, continue with the next question (Q. MM19).

**Q. MM19-MM21: PREGNANT OR GIVING BIRTH WHEN DIED**

These questions are asked only for sisters who died at the age of 12 or older. The objective of these questions is to detect cases of maternal mortality. Maternal mortality may happen during pregnancy, during delivery, or during the end of a pregnancy (abortion or still birth) or even during the two months after the end of a pregnancy.

**Q. MM22: NUMBER OF DAYS WHEN DIED**

Death occurring within a specified number of days after pregnancy or childbirth is important in order to detect cases of maternal mortality. For all sisters who have died within two months after the end of a pregnancy or childbirth (YES to Q. MM21), you must record number of days in Q. MM22.

Obtaining accurate data is difficult; probe and enter number of days even if it is only a best estimate. If the respondent answers in weeks, and probing does not produce an estimate in days, convert the number of weeks to days by multiplying by 7. For example, if after probing the respondent can only report that it was 3 weeks and does not know exactly how many days, you will record 3 weeks as 21 days.

#### **Q. MM23-MM24: DEATH DUE TO VIOLENCE OR ACCIDENT**

The objectives of these two questions are to distinguish maternal deaths from other causes, and to determine whether any of the deaths reported in the table, other than the maternal deaths, were due to an act of violence or accident.

It is important that you follow skip instructions carefully.

#### **Notes for the Adult and Maternal Mortality Section:**

- 1) The number of columns filled must be equal to the number of siblings listed in Q. MM01 and the total number of brothers and sisters recorded in Q. MM07.
- 2) Indicate the respondent's position in the table by marking an 'X' between the two columns of the sibling that is older and younger than the respondent (this is where the respondent falls in the order of siblings). The number of columns preceding the 'X' must be equal to the number recorded in Q. MM11.
- 3) If you add Q. MM17 (number of years since the death) and Q. MM18 (age at death), this gives the age the brother or sister would have been today if he/she were still alive. This calculation can be made to check that the brothers and sisters were recorded in the right order.
- 4) If in Q. MM18 (age at death), the respondent tells you she doesn't know, persist to obtain an estimate. It is preferable to obtain an approximate age than no age at all. However, if the brother or sister died when he/she was still very young, record '00' for age.
- 5) Compare the age of the brothers/sisters. Suppose a woman has a first child at the age of 15 and the last at the age of 47, which is an extreme case, the range between the age of the youngest brother or sister and the eldest brother/sister cannot exceed  $47-15 = 32$  years.

Cross check to see if the interval between brothers/sisters is very long (5 years and above). If there is a long interval between births, be sure that the respondent has not forgotten to mention a brother or sister.

## **Tabulation Plan Table of Contents**

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- [Figure MM.1 Adult Mortality Rates by Age](#)
- [Table MM.2 Adult mortality probabilities](#)
- [Table MM.3 Maternal mortality](#)
- [Table MM.4 Maternal mortality ratio](#)
- [Fig MM.2 Pregnancy-Related Mortality Ratio](#)
- [Table B.? Sampling errors for adult and maternal mortality rates](#)
- [Table C.8 Completeness of information on siblings](#)
- [Working table. Completeness of information for dead sisters](#)
- [Table C.9 Sibship size and sex ratio of siblings](#)
- [Table C.10 Pregnancy-related mortality trends](#)

**Table MM.1 Adult mortality rates**

Direct estimates of female and male mortality rates for the seven years preceding the survey, by five-year age groups, [Country Survey Year]

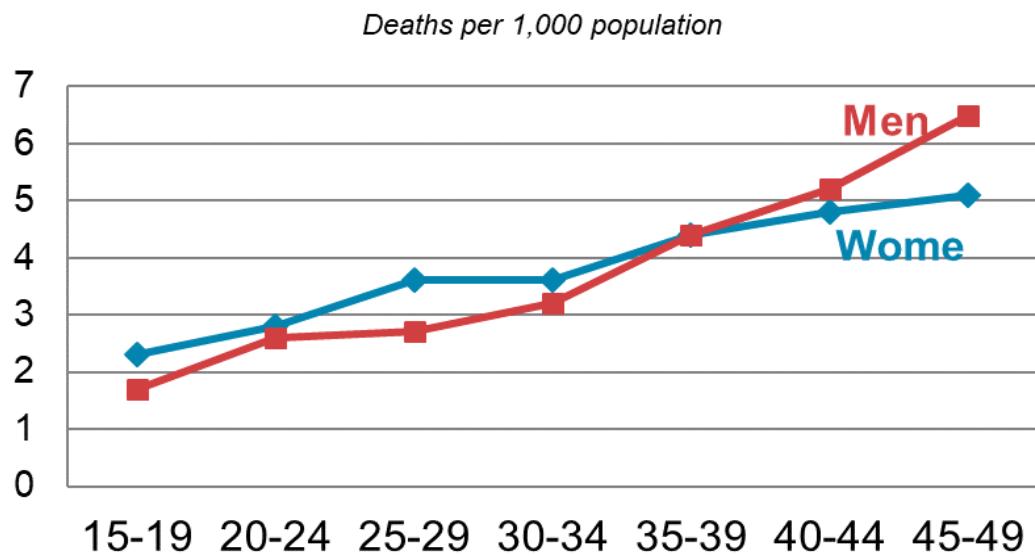
Age	Deaths	Exposure years	Mortality rate per 1,000 population <sup>1</sup>
FEMALE			
15-19	38	26,996	1.42
20-24	52	26,051	1.99
25-29	51	20,387	2.49
30-34	68	17,247	3.97
35-39	28	14,917	1.85
40-44	33	10,412	3.16
45-49	18	5,917	3.06
Total 15-49	288	121,927	2.35 <sup>a</sup>
MALE			
15-19	47	28,503	1.65
20-24	23	27,180	0.85
25-29	46	21,459	2.12
30-34	30	17,734	1.67
35-39	32	15,002	2.11
40-44	36	10,539	3.39
45-49	24	6,188	3.95
Total 15-49	237	126,605	2.02 <sup>a</sup>

<sup>1</sup> Expressed per 1,000 population

<sup>a</sup> Age-adjusted rate

Confidence limits: The confidence limits should be included in a table in the sampling error appendix (see the sampling error table). Reference the confidence intervals (CIs) in discussing the 5-year age group rates. Precision for the 5-year age group rates is low, and the CIs for many of the rates may overlap, indicating there is likely no statistically significant difference between them. Review the discussion for Figure MM.2 for more information on comparing rates and confidence intervals.

Figure MM.1 Adult Mortality Rates by Age



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**Table MM.2 Adult mortality probabilities**

The probability of dying between the ages of 15 and 50 for women and men during the seven years preceding the survey, [Country]

Survey	Female ${}_{35}q_{15}^1$	Male ${}_{35}q_{15}^1$
[Current yyyy country] DHS	159	209
[Prior yyyy country] DHS	187	223

<sup>1</sup> The probability of dying between exact ages 15 and 50, expressed per 1,000 persons at age 15

---

Row 1:

The probability of dying between exact ages of 15 and 50 for women (based on sisters reported by female respondents in the Adult and Maternal Mortality Module) and for men (based on brothers reported by female respondents in the Adult and Maternal Mortality Module).

Row 2:

This row will be shown only when a prior country survey included the Adult and Maternal Mortality Module. It shows the probability of dying between exact ages of 15 and 50 among women (based on sisters reported by female respondents in the Adult and Maternal Mortality Module from the prior survey) and among men (based on brothers reported by female respondents in the Adult and Maternal Mortality Module from the prior survey).

Confidence limits: The confidence limits for  ${}_{35}q_{15}$  for women and men for the current survey (and the prior survey if applicable) should be included in a table in the sampling error appendix. When comparing rates for women and men or across surveys, refer to the confidence intervals to see if there are significant differences. Review the discussion below figure MM.2 for more information on comparing rates and confidence intervals.

**Table MM.3 Maternal mortality**

Direct estimates of maternal mortality rates for the seven years preceding the survey, by five-year age groups, [Country Survey Year]

Age	Percentage of female deaths that are maternal	Maternal deaths <sup>1</sup>	Exposure years	Maternal mortality rate <sup>2</sup>
15-19	21.1	8	26,996	0.29
20-24	42.3	22	26,051	0.86
25-29	47.1	24	20,387	1.20
30-34	47.1	32	17,247	1.84
35-39	42.9	12	14,917	0.84
40-44	45.5	15	10,412	1.44
45-49	33.3	6	5,917	1.03
Total 15-49	41.7	120	121,927	0.96 <sup>a</sup>

<sup>1</sup> A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, from any cause except accidents or violence

<sup>2</sup> Expressed per 1,000 woman-years of exposure

<sup>a</sup> Age-adjusted rate

DHS-8 and DHS-7 follow the WHO definition of a maternal death: "a maternal death is the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management but not from accidental or incidental causes."<sup>1</sup>

The percentage of female deaths that are maternal equals the number of maternal deaths in column 2 of MM.3 divided by the number of adult female deaths in column 1 of MM.2, expressed as a percentage.

[1] <http://www.who.int/healthinfo/statistics/indmaternalmortality/en/>

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**Table MM.4 Maternal mortality ratio**

Total fertility rate, general fertility rate, maternal mortality ratio, and lifetime risk of maternal death for the seven years preceding the survey, [Country Survey Year]

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Total fertility rate (TFR)	6.2
General fertility rate (GFR) <sup>1</sup>	172 <sup>a</sup>
Maternal mortality ratio (MMR) <sup>2</sup>	557 CI: (X, Y)
Lifetime risk of maternal death <sup>3</sup>	0.034

---

CI: Confidence interval

<sup>1</sup> Age-adjusted rate expressed per 1,000 women age 15-49

<sup>2</sup> Expressed per 100,000 live births; calculated as the age-adjusted maternal mortality rate (shown in Table MM.3) times 100 divided by the age-adjusted general fertility rate

<sup>3</sup> Calculated as  $1 - (1 - \text{MMR})^{\text{TFR}}$  where TFR represents the total fertility rate for the seven years preceding the survey

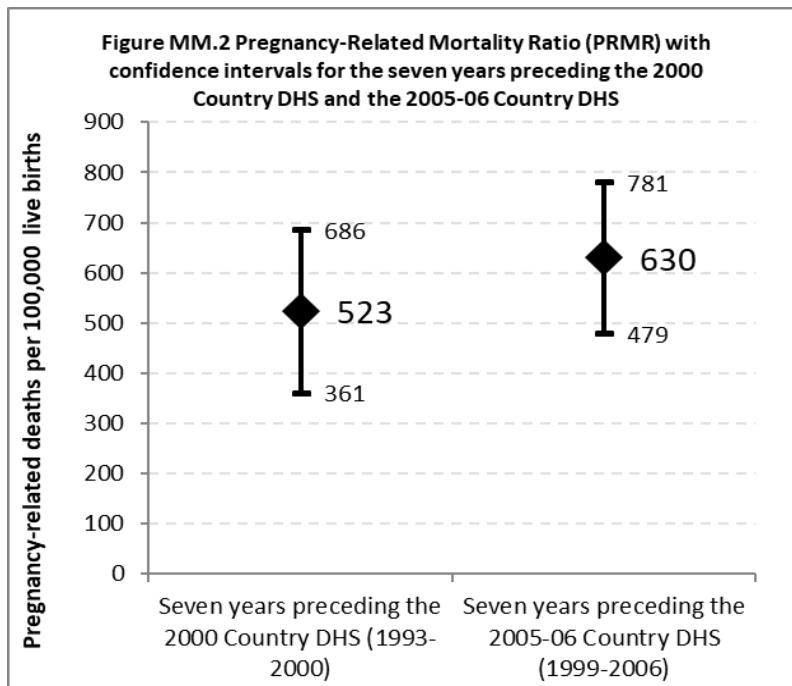
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The lifetime risk of maternal death is calculated from the maternal mortality ratio (MMR) using the formula given in the footnote. It is interpreted as the risk of a woman with average fertility dying during pregnancy, childbirth or in the 42 days following a birth throughout the course of her reproductive life. It is expressed as a proportion in the table. For example, a lifetime risk of 0.034 indicates that out of every 100 women, 3.4 (or 3 percent) will have a maternal death. It may be useful to include the percentage and/or the inverse of the proportion in the text for ease of interpretation. For example, a proportion of 0.034 is equivalent to 1 in 29 women.

Confidence limits: The confidence limits for the 5-year age group rates, the total maternal mortality rates, and the maternal mortality ratio (MMR) should be included in a table in the sampling error appendix. Note that the confidence intervals for the 5-year age group maternal mortality rates are likely to be especially wide relative to the rate itself. Confidence intervals for many of the 5-year rates are likely to overlap, especially in the older age groups. If you choose to discuss the 5-year maternal mortality rates in the text, refer to the confidence intervals when deciding how to interpret them. Review the discussion below figure MM.2 for more information on comparing rates and confidence intervals.

For countries with measurements of the MMR from surveys prior to DHS-7, comparison should not be made using the revised table MM.3 above, but using appendix table C.10 which estimates pregnancy-related mortality in the same way MMR was estimated in surveys prior to DHS-7. The report should include Figure MM.2 (below), and the text must include a discussion of whether or not the observed difference can be interpreted as a change in the level of pregnancy-related mortality.

The reference periods before each estimate should be the same length. The approximate calendar years included in the reference period should be noted in the figure. If a previous survey included the maternal mortality chapter, but no confidence limits were published, the confidence limits for the previous survey must be calculated and included. Include estimates for all surveys for which data are available.



There are three possible outcomes when comparing confidence intervals:

1. The confidence intervals do not overlap. In this case, the difference between the estimates is statistically significant, i.e., that the pregnancy-related mortality ratio has increased/decreased.
2. The confidence intervals overlap to the extent that either confidence interval encompasses the point estimate of the other survey. In this case, the difference between the estimates cannot be statistically significant. We conclude that the survey has not detected a change. Note that this is not the same as saying that the survey concludes there has been no change. There could be a change that was too small to be detected by the survey. Even with their large sample sizes, DHS surveys are able to detect only large changes in the maternal mortality ratio.
3. The confidence intervals overlap, but neither confidence interval includes the point estimate of the other survey (only the tails overlap). In this case, it is not possible to determine whether or not the difference between the two estimates is statistically significant based on the confidence intervals. The sampling statistician for the survey will need to perform a test to determine whether the difference is statistically significant. The sampling statistician will give you the confidence interval for the difference between the pregnancy-related mortality ratios of the two surveys. The difference between the ratios is the simple arithmetic difference between the point estimates of the two surveys. In the example above, the difference would be 107 pregnancy-related deaths per 100,000 live births. If the confidence interval for the difference does not include zero, then the difference between the two surveys is statistically significant. If the confidence interval for the difference includes zero, then the difference between the two surveys is not statistically significant. Include the difference and the confidence level for the difference in a footnote in the chapter, as recommended in options 3a and 3b below.

The formulas being used assume that the surveys being compared were drawn from independent samples, and, most of the time, two consecutive DHS surveys will have independently selected samples. In the event that this is not true, for example if a second survey purposively included clusters from the prior survey or if both surveys were selected from the same master list of clusters (if the master list includes a sample of all of the clusters in the country), consult with your sampling statistician because different formulas must be used to test whether or not a difference is statistically significant when samples are not independent.

The following section includes example text to include in the final report chapter for all of the possible outcomes described above.

**1. The confidence intervals do not overlap.**

"As shown in Figure MM.2, there is no overlap between the confidence intervals surrounding the estimates of the pregnancy-related mortality ratio (PRMR) for the [yyyy country] DHS and the [yyyy country] DHS. The difference between the yyyy and yyyy estimates of the PRMR is statistically significant and not likely to be due to sampling error. Therefore, it can be concluded that the PRMR has [increased/decreased] between the yyyy and yyyy surveys."

**2. The confidence interval from either survey encompasses the point estimate from the other survey.**

"As shown in Figure MM.2, the confidence intervals for the maternal mortality ratio (MMR) for the [yyyy country] DHS and the [yyyy country] DHS overlap. The confidence interval for the [yyyy country] DHS spans the point estimate of the PRMR in the [yyyy country] DHS [or vice versa]. The difference between the yyyy and yyyy estimates of the PRMR is not statistically significant. Any change that may have occurred between the two surveys was not large enough to be significant with the sample sizes of the surveys."

**3a. The confidence intervals overlap, and the statistical test concluded the difference is statistically significant.**

"As shown in Figure MM.2, the confidence intervals for the pregnancy-related mortality ratio (PRMR) for the [yyyy country] DHS and the [yyyy country] DHS overlap. Because it is still possible for a difference to be statistically significant even if the confidence intervals overlap, a statistical test of significance was conducted. The test concluded that the difference between the yyyy and yyyy estimates of the PRMR is statistically significant and not likely to be due to sampling error<sup>1</sup>. Therefore, it can be concluded that the PRMR has [increased/decreased] between the yyyy and yyyy surveys."

**Footnote for 3a:**

<sup>1</sup> The difference in the PRMR between the two surveys is X deaths per 100,000 live births. The confidence interval for this difference is (Y, Z). The confidence interval does not include zero, indicating that the difference between the two estimates is statistically significant."

3b. The confidence intervals overlap, and the statistical test concluded that the difference is not statistically significant.

"As shown in Figure MM.2, the confidence intervals for the pregnancy-related mortality ratio (PRMR) for the [yyyy country] DHS and the [yyyy country] DHS overlap. Because it is still possible for a difference to be statistically significant even if the confidence intervals overlap, a statistical test of significance was conducted. The test concluded that the difference between the estimates of the PRMR for the yyyy and yyyy surveys is not statistically significant. Any change that may have occurred between the two surveys was not large enough to be statistically significant with the sample sizes of the surveys."

Footnote for 3b:

<sup>1</sup>The difference in the PRMR between the two surveys is X deaths per 100,000 live births. The confidence interval for this difference is (Y, Z). The confidence interval includes zero, indicating that the difference between the two estimates is not statistically significant."

**Table B.? Sampling errors for adult and maternal mortality rates, [Country Survey Year]**

Variable	Value (R)	Standard Error (SE)	Number of cases			Confidence limits		
			Un-weighted (N)	Weighted (NW)	Design Effect (DEFT)	Relative Error (SE/R)	Lower (R-2SE)	Upper (R+2SE)
WOMEN								
<b>Adult mortality rates</b>								
15-19								
20-24								
25-29								
30-34								
35-39								
40-44								
45-49								
15-49 (age-adjusted)								
<b>Adult mortality probabilities</b>								
$_{35}q_{15}$ [survey year]								
$_{35}q_{15}$ [prior survey year]								
<b>Maternal mortality rates</b>								
15-19								
20-24								
25-29								
30-34								
35-39								
40-44								
45-49								
15-49 (age-adjusted)								
<b>Maternal mortality ratio (MMR) [year]</b>								
<b>Pregnancy-related mortality ratio (PRMR) [year]</b>								
<b>Pregnancy-related mortality ratio (PRMR) [prior survey year]</b>								
MEN								
<b>Adult mortality rates</b>								
15-19								
20-24								
25-29								
30-34								
35-39								
40-44								
45-49								
15-49 (age-adjusted)								
<b>Adult mortality probabilities</b>								
$_{35}q_{15}$ [survey year]								
$_{35}q_{15}$ [prior survey year]								

This table will be produced by the sampling statistician, and will be placed at the end of the sampling error appendix after the regional tables.

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**Table C.8 Completeness of information on siblings**

Completeness of data on survival status of sisters and brothers reported by interviewed women, age of living siblings and age at death (AD) and years since death (YSD) of dead siblings (unweighted), [Country Survey Year]

	Sisters		Brothers		All siblings	
	Number	Percent	Number	Percent	Number	Percent
<b>All siblings</b>						
Living						
Dead						
Survival status unknown						
<b>Living siblings</b>						
Age reported						
Age missing						
<b>Dead siblings</b>						
AD and YSD reported						
Missing only AD						
Missing only YSD						
Missing AD and YSD						

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**Working table. Completeness of information for dead sisters**

Percentage of sisters who died at ages 15-49 with information missing on whether or not the death was pregnancy-related or maternal (unweighted), [Country Survey Year]

	Percent
Deaths that could not be classified as pregnancy-related or non-pregnancy-related	
Deaths that could not be classified as maternal or non-maternal	
Total number of sisters who died at ages 15-49	

Note: Restricted to sisters who died during the seven years preceding the survey.

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*Deaths that could not be classified as pregnancy-related or non-pregnancy-related* are deaths with missing information on whether the deaths were during pregnancy, during delivery or in the two months following the termination of the pregnancy. *Deaths that could not be classified as maternal or non-maternal* include all deaths that cannot be classified as pregnancy-related or non-pregnancy-related, but also include deaths with missing information on whether the death was due to accidental or incidental causes and deaths with missing information on whether or not the death was within 42 days of the termination of pregnancy.

**Table C.9 Sibship size and sex ratio of siblings**

Mean sibship size and sex ratio of siblings at birth, [Country Survey Year]

Age of respondents	Mean sibship size <sup>1</sup>	Sex ratio of siblings at birth <sup>2</sup>	
		Mean	siblings at birth <sup>2</sup>
15-19			
20-24			
25-29			
30-34			
35-39			
40-44			
45-49			
Total			

<sup>1</sup> Includes the respondent

<sup>2</sup> Excludes the respondent

**Table C.10 Pregnancy-related mortality trends**

Direct estimates of pregnancy-related mortality rates for the seven years preceding each survey, by five-year age groups, [Country]

Age	Pregnancy-related mortality rates <sup>1,2</sup>			
	[xxxx-yyyy]	[xxxx-yyyy]	[xxxx-yyyy]	[xxxx-yyyy]
15-19	0.33			
20-24	0.97			
25-29	1.35			
30-34	2.07			
35-39	0.94			
40-44	1.62			
45-49	1.16			
Total 15-49 <sup>a</sup>	1.08			
Total fertility rate (TFR)	6.2			
General fertility rate (GFR) <sup>3</sup>	172			
Pregnancy related mortality ratio (PRMR) <sup>4</sup>	630			
Confidence interval	(479-781)			
Lifetime risk of pregnancy-related death <sup>5</sup>	0.038			

<sup>1</sup> Pregnancy-related mortality is defined as the death of a woman while pregnant or within 2 months of termination of pregnancy, from any cause including accidents or violence

<sup>2</sup> Expressed per 1,000 woman-years of exposure

<sup>3</sup> Age adjusted rate expressed per 1,000 women age 15-49

<sup>4</sup> Expressed per 100,000 live births; calculated as the age-adjusted pregnancy-related mortality rate times 100 divided by the age-adjusted general fertility rate

<sup>5</sup> Calculated as  $1 - (1 - \text{PRMR})^{\text{TFR}}$  where TFR represents the total fertility rate for the seven years preceding the survey

<sup>a</sup> Age-adjusted rate

To compare with estimates from DHS surveys prior to DHS-7, DHS-8 and DHS-7 define a pregnancy-related death as the death of a woman while pregnant or within 2 months of termination of pregnancy, irrespective of the cause of death. Note that this definition varies from the WHO definition of a pregnancy-related death, which limits the window to 42 days. What is defined as a pregnancy-related death in DHS-8 and DHS-7 was labeled as a maternal death in prior DHS surveys.